INDEX TO VOLUME 81

A

Accipiter bicolor, 320
cooperii, 219–220, 236
gentilis, 195
Acridotheres tristis, 205
Acrocephalus schoenobaenus, 261
scirpaceus, 261
Actitis macularia, 99
Aethia cristatella, 94
pusilla, 94
Agelaius phoeniceus, 25, 39, 91, 236, 258–264, 304, 314, 417–420, 436
tricolor, 236
Ainley, D. G., see Roudybush, T. E.
Aix sponsa, 432
Ajaia ajaja, 306
Akepa, see *Loxops coccinea*
Albatross, Black-footed, see *Diomedea nigripes*
Galapagos, see *Diomedea irrorata*
Laysan, see *Diomedea immutabilis*
Royal, see *Diomedea epomophora*
Alectoris graeca, 333
Amakihi, see *Loxops virens*
Amazona autumnalis, 301, 321
Anabercerthia striaticollis, 319
Anas acuta, 312
americana, 312
clypeata, 427
crecca, 197, 214, 312
discors, 38
fulvigula, 432
platyrhynchos, 35–41, 312, 333, 336
strepera, 312
Ani, Smooth-billed, see *Crotophaga ani*
Anous stolidus, 430, 431
Anser albifrons, 432
anser, 49, 333
caerulescens, 46, 194, 232–235, 432
erythropus, 50
fabalis, 49, 229
rossi, 48
Antbird, Bicolored, see *Gymnopithys leucaspis*
Black-faced, see *Myrmoborus myotherinus*
Gray, see *Cercomacra cinerascens*
Anthracothorax prevostii, 98
Antshrike, Black-capped, see *Thamnophilus schistaceus*
Bluish-slate, see *Thamnomanes schistogynus*
Dusky-throated, see *Thamnomanes ardesiacus*
Fasciated, see *Cymbilaimus lineatus*
Slaty, see *Thamnophilus punctatus*
Spot-winged, see *Pygiptila stellaris*
White-shouldered, see *Thamnophilus aethiops*
Ant-Tanager, Red-crowned, see *Habia rubica*
Antwren, Dot-winged, see *Microrhopias quixensis*
Gray, see *Myrmotherula menetriesii*
Ihering's, see *Myrmotherula iheringi*
Long-winged, see *Myrmotherula longipennis*
Ornate, see *Myrmotherula ornata*
Plain-throated, see *Myrmotherula hauxwelli*
Pygmy, see *Myrmotherula brachyura*
White-eyed, see *Myrmotherula leucophthalma*
White-flanked, see *Myrmotherula axillaris*
Apapane, see *Himatione sanguinea*
Aphelocoma ultramarina, 6
Aptenodytes forsteri, 195
Apteryx australis, 198
Apus apus, 133–145
Aquila chrysaetos, 218
rapax, 333
Ar, A., Rahn, H., and Paganelli, C. V., The avian egg: mass and strength, 331–337
Araçaris, Collared, see *Pteroglossus torquatus*
Aramides cajanea, 100–101
Aramus guarauna, 101
Ardea cinerea, 170, 333
herodias, 306
Ardeola ibis, 93
Arenaria interpres, 99, 295
Athene noctua, 333
Atkins, Natasha, see Duffy, David C.
Artamus leucorhynchus, 204
Asio flammeus, 307–308, 398
Attila, Bright-rumped, see *Attila spadiceus*
Attila spadiceus, 344
Auklet, Cassin's, see *Ptychoramphus aleuticus*
Crested, see *Aethia cristatella*
Least, see *Aethia pusilla*
Parakeet, see *Cyclorrhynchus psittacula*
Automolus infuscatus, 343, 344
ochralaemus, 344
rufipileatus, 344
Aythya americana, 38

B

Balph, D. F., and Balph, M. H., Behavioral flexibility of Pine Siskins in mixed species foraging groups, 211–212
Balph, M. H., see Balph, D. F.
Bananaquit, see *Coereba flaveola*
Baptista, L. F., and Matsui, M., The source of the dive-noise of the Anna's Hummingbird, 87–89
Barlow, J. C., see Russell, S. M.
Barklow, W. E., Graded frequency variations of the tremolo call of the Common Loon, 53–64
Batt, B. D. J., and Prince, H. H., Laying dates, clutch size and egg weight of captive Mallards, 35–41
Batzli, G. O., see Williams, J. B.
Beal, K. G., and Gillam, L. D., On the function of prey beating by Roadrunners, 85–87
Becard, Pink-throated, see *Platypsaris minor*
Berman, S. L., see Raikow, R. J.
Berns, V. D., Golden Eagle nest on Kodiak Island, Alaska, 218
Bird-of-paradise, Loria's, see *Loria loriae*
Black, C. P., see Holmes, R. T.
Blackbird, see *Turdus merula*
Brewer's, see *Euphagus cyanocephalus*
European, see *Turdus merula*
Red-winged, see *Agelaius phoeniceus*
Rusty, see *Euphagus carolinus*
Tri-colored, see *Agelaius tricolor*
Yellow-headed, see *Xanthocephalus xanthocephalus*
Bluebird, Eastern, see *Sialia sialis*
Bluhm, C. K., and Ward, K. E., Great Horned Owl predation on a Short-eared Owl, 307–308
Boag, P. T., and Ratcliffe, L. M., First record of a Black-poll Warbler for the Galápagos, 218
Bobwhite, see *Colinus virginianus*
Boersma, P. D., and Wheelwright, N. T., Egg neglect in the Procellariiformes: Reproductive adaptations in the Fork-tailed Storm-petrel, 157–165
Bonasa umbellus, 214, 217
Booby, Blue-faced, see *Sula dactylatra*
Brown, see *Sula leucogaster*
Borecky, S. R., see Raikow, R. J.
Boubou, Tropical, see *Laniarius ferrugineus*
Bowerbird, Great Grey, see *Chlamydera nuchalis*
Boyd, R. L., see Braun, C. E.

Branta bernicla, 47
canadensis, 42, 195, 297
leucopsis, 42–52
Braun, C. E., Reid, V. H., Ray, T. D., and Boyd, R. L., Additional records of White-winged Doves in Colorado, 96
Braun, C. E., see Giesen, K. M.
Bubo bubo, 333
virginianus, 307–308
Bubulcus ibis, 99, 274, 333
Bucephala albeola, 197
Bufflehead, see *Bucephala albeola*
Bullfinch, see *Pyrrhula pyrrhula*
Bunting, Indigo, see *Passerina cyanea*
Lazuli, see *Passerina amoena*
Little, see *Emberiza pusilla*
Snow, see *Plectrophenax nivalis*
Burger, J., Competition and predation: Herring Gulls versus Laughing Gulls, 269–277
Burger, J., and Trout, J. R., Additional data on body size as a difference related to niche, 305–307
Burhinus oedicnemus, 333
Buteo magnirostris, 320
nitidus, 411
rufinus, 333
Butler, R. W., and Kirbyson, J. W., Oyster predation by the Black Oystercatcher in British Columbia, 433–435
Butorides striatus, 99, 100, 306

C

Cacicus cela, 205
Cacique, Yellow-rumped, see *Cacicus cela*
Calcarius lapponicus, 214
Calidris mauri, 295
minutilla, 99
ptilocnemis, 214
Calypte anna, 87–89
costae, 87
helenae, 197
Campephilus guatemalensis, 302
melanoleucos, 299
Campylorhynchus brunneicapillus, 350
trochilirostris, 344
Canachites canadensis, 214
Capercaillie, see *Tetrao urogallus*
Cardinal, see *Cardinalis cardinalis*
Cardinalis cardinalis, 251–257
Carduelis carduelis, 72, 333
chloris, 333
flammea, 96–97
hornemanni, 96–97
pinus, 211
spinus, 212
Carpodacus cassinii, 211
Carr, G. S., Greater Shearwater in Costa Rica, 323
Casmerodius albus, 99, 306
Catbird, see *Dumetella carolinensis*
Catharacta skua, 394
Cathartes aura, 171
Catharus fuscescens, 414
guttatus, 414
Cepphus columba, 213, 295
grylle, 295
Cercomacra cinerascens, 344
Certhia familiaris, 122–132
Chaffinch, see *Fringilla coelebs*
Chat, Yellow-breasted, see *Icteria virens*
Chickadee, Black-capped, see *Parus atricapillus*
Carolina, see *Parus carolinensis*
Mexican, see *Parus sclateri*
Mountain, see *Parus gambeli*
Chicken, Greater Prairie, see *Tympanuchus cupido*
Chlamydera nuchalis, 203
Chlidonias leucoptera, 333
niger, 431
Cioconia ciconia, 333
Circus aeruginosus, 192
cyaneus, 192
Clark, G. A., Jr., Body weights of birds: A review, 193–202
Coccyzus minor, 98
Coereba flaveola, 98
Colaptes auratus, 370–375, 438
Colinus virginianus, 39, 196
Collias, E. C., Collias, N. E., Jacobs, C. H., McAlary, F., and Fujimoto, J. T., Experimental evidence for facilitation of pair formation by bright color in weaverbirds, 91–93
Collias, N. E., see Collias, E. C.
Collocallia vanikorensis, 407
Colopteryx galeatus, 291
Columba leucocephala, 98
livia, 39
palumbus, 141, 194, 290
Columbina cruziana, 398
Condor, Andean, see *Vultur gryphus*
California, see *Gymnogyps californianus*
Contopus sordidulus, 436
virens, 99
Cooke, F., see Sulzbach, D. S.
Coot, American, see *Fulica americana*
Coragyps atratus, 171
Corapipo altera, 424
Cormorant, Brandt's, see *Phalacrocorax penicillatus*
Double-crested, see *Phalacrocorax auritus*
Guanay, see *Phalacrocorax bougainvillii*
Pelagic, see *Phalacrocorax pelagicus*
Red-faced, see *Phalacrocorax urile*
Corvus brachyrhynchos, 279–250
corone, 236, 333
ossifragus, 274
Cossypha cyanocampter, 189
Coturnix coturnix, 141, 169, 293
Cowbird, Brown-headed, see *Molothrus ater*
Cranioleuca curtata, 319
Creeper, Brown, see *Certhia familiaris*
Crossbill, Red, see *Loxia curvirostra*
Crotophaga ani, 98, 196
Crow, Carrion, see *Corvus corone*
Common, see *Corvus brachyrhynchos*
Fish, see *Corvus ossifragus*
Cruz, A., and Johnston, D. W., Occurrence and feeding ecology of the Common Flicker on Grand Cayman Island, 370–375
Cuckoo, see *Cuculus canorus*
Mangrove, see *Coccyzus minor*
Cuculus canorus, 39, 244
Cyanocitta cristata, 251–257
Cyanocorax sanblasiana, 411
Cyclorrhynchus psittacula, 94
Cygnus olor, 47, 186, 197
Cymbilaimus lineatus, 344
Cyphorhinus aradus, 186, 344

D

Deconychura longicauda, 344
Delichon urbica, 141
Dendragapus obscurus, 78–82, 217
Dendrexetastes rufigula, 344
Dendroica caerulescens, 9–20, 99, 100
coronata, 99
discolor, 143
magnolia, 99
palmarum, 99
petechia, 98, 99, 218, 436

striata, 99, 218, 219
tigrina, 99
virens, 99
Depner, G., see Ellis, D. H.
Diomedea epomophora, 162
immutabilis, 162
irrorata, 162
nigripes, 390–396
Dixon, K. L., and Martin, D. J., Notes on the vocalizations of the Mexican Chickadee, 421–423
Dove, Caribbean, see *Leptotila jamaicensis*
Galápagos, see *Zenaida galapagoensis*
Gold-billed Ground, see *Columbina cruziana*
Mourning, see *Zenaida macroura*
Rock, see *Columba livia*
Turtle, see *Streptopelia risoria*
White-tipped, see *Leptotila verreauxi*
White-winged, see *Zenaida asiatica*
Dryocopus lineatus, 299–303
pileatus, 299, 372
Duck, Black-headed, see *Heteronetta atricapilla*
Domestic, see *Anas platyrhynchos*
Harlequin, see *Histrionicus histrionicus*
Duffy, D. C., and Atkins, N., A second breeding record for the Grey-hooded Gull (*Larus cirrocephalus*) on the coast of Peru, 219
Dumetella carolinensis, 99, 100, 251–257

E

Eagle, Bald, see *Haliaeetus leucocephalus*
Golden, see *Aquila chrysaetos*
Egret, Cattle, see *Ardeola ibis*
Cattle, see *Bubulcus ibis*
Great, see *Casmerodius albus*
Snowy, see *Egretta thula*
Egretta garzetta, 333
thula, 306
Eider, Common, see *Somateria mollissima*
Elaenia, Caribbean, see *Elaenia martinica*
Elaenia martinica, 98
Elanoides forficatus, 207
Eley, J. W., Parker, T. A. III, and Hunter, D. R., Notes on *Siptornis striaticollis* (Furnariidae) in Peru, 319
Ellis, D. H., and Depner, G., A seven-egg clutch for the Cooper's Hawk, 219
Emberiza pusilla, 141
Empidonax difficilis, 436
euleri, 287
minimus, 9–20
oberholseri, 436
Erythropygia galactotes, 333
Eudocimus albus, 376–389
Eudyptula minor, 118
Euphagus carolinus, 438
cyanocephalus, 351, 436
Euphonia, Orange-bellied, see *Euphonia xanthogaster*
Euphonia xanthogaster, 344
Ewert, D. N., Development of song of a Rufous-sided Towhee raised in acoustic isolation, 313–316

F

Falco columbarius, 99, 171
mexicanus, 170
naumanni, 333
peregrinus, 170
sparverius, 166
tinnunculus, 333
Falcon, Collared Forest, see *Micrastur semitorquatus*
Laughing, see *Herpetotheres cachinnans*
Peregrine, see *Falco peregrinus*
Prairie, see *Falco mexicanus*
Finch, Cassin's, see *Carpodacus cassinii*
Gray-crowned Rosy, see *Leucosticte tephrocotis*
Fitzner, R. E., and Hanson, W. C., A congregation of wintering Bald Eagles, 311–313
Flicker, Common, see *Colaptes auratus*
Florida caerulea, 99, 306
Flycatcher, Dusky, see *Empidonax oberholseri*
Euler's, see *Empidonax euleri*
Grey-hooded, see *Pipromorpha rufiventris*
Least, see *Empidonax minimus*
McConnell's, see *Pipromorpha macconnelli*
Ochre-bellied, see *Pipromorpha oleaginea*
Olive-sided, see *Nuttallornis borealis*
Olive-striped, see *Mionectes olivaceus*
Sepia-capped, see *Leptopogon amaurocephalus*
Slaty-capped, see *Leptopogon superciliaris*
Streaked, see *Myiodynastes maculatus*
Western, see *Empidonax difficilis*
Yellow-margined, see *Tolmomyias assimilis*
Yellow-olive, see *Tolmomyias sulphurescens*
Foliage-gleaner, Buff-throated, see *Philydor rufus*
Buff-throated, see *Automolus ochrolaemus*
Chestnut-crowned, see *Automolus rufipileatus*
Olive-backed, see *Automolus infuscatus*
Rufous-tailed, see *Philydor ruficaudatus*
Forest-falcon, Slaty-backed, see *Micrastur mirandollei*
Fowl, Domestic, see *Gallus gallus*
Frank, L. G., see Williams, P. L.
Fratercula corniculata, 94, 214
Fregata magnificens, 99
tropica, 162
Fringilla coelebs, 10, 181
Fujimoto, J. T., see Collias, E. C.
Fulica americana, 312
Fulmar, Antarctic, see *Fulmarus glacialoides*
Northern, see *Fulmarus glacialis*
Fulmarus glacialis, 94, 198, 390–396
glacialoides, 198

G

Gadwell, see *Anas strepera*
Galerida cristata, 333
Gallinula chloropus, 333
Gallus gallus, var. *domesticus*, 141, 154, 293, 311, 333
Gannet, see *Morus bassanus*
Gavia adamsii, 53
immer, 53–64, 432
stellata, 432
Geothlypis trichas, 99, 100
Geococcyx californianus, 75, 85–87
Geranospiza caerulescens, 320
Geronticus eremita, 333
Giesen, K. M., and Braun, C. E., Nesting behavior of female White-tailed Ptarmigan in Colorado, 215–217
Giesen, K. M., and Braun, C. E., Renesting of White-tailed Ptarmigan in Colorado, 217–218
Gillam, L. D., see Beal, K. G.
Gilman, A. P., see Roudybush, T. E.
Glareola pratincola, 333
Glaucidium brasilianum, 300
Glaucis hirsuta, 290
Glyphorynchus spirurus, 344
Gnatwren, Collared, see *Microbates collaris*
Half-collared, see *Microbates cinereiventris*
Long-billed, see *Ramphocaenus melanurus*
Godwit, Bar-tailed, see *Limosa lapponica*
Goldfinch, European, see *Carduelis carduelis*
Goose, Barnacle, see *Branta leucopsis*
Brant, see *Branta bernicla*
Cackling, see *Branta canadensis*
Canada, see *Branta canadensis*
Graylag, see *Anser anser*

Lesser Snow, see *Anser caerulescens*
Lesser White-fronted, see *Anser erythropus*
Pink-footed, see *Anser fabalis*
Ross', see *Anser rossii*
Goshawk, see *Accipiter gentilis*
Gottfried, B. M., Anti-predator aggression in birds nesting in old field habitats: An experimental analysis, 251–257
Grabowski, G. L., Vocalizations of the Rufous-backed Thrush (*Turdus rufopalliatus*) in Guerrero, Mexico, 409–416
Grackle, Common, see *Quiscalus quiscula*
Great-tailed, see *Quiscalus mexicanus*
Grant, G. S., Ring-billed Gull feeding on date fruit, 432–433
Grant, K. T., see Grant, P. R.
Grant, P. R., and Grant, K. T., Breeding and feeding ecology of the Galapagos Dove, 397–403
Grassquit, Black-faced, see *Tiaris bicolor*
Grau, C. R., see Roudybush, T. E.
Graves, G. R., see Eley, J. W.
Grebe, Pied-billed, see *Podilymbus podiceps*
Silvery, see *Podiceps occipitalis*
Greenlet, Tawny-crowned, see *Hylophilus ochraceiceps*
Grosbeak, Evening, see *Hesperiphona vespertina*
Grouse, Black, see *Lyrurus tetrix*
Blue, see *Dendragapus obscurus*
Red, see *Lagopus lagopus*
Ruffed, see *Bonasa umbellus*
Sharp-tailed, see *Pedioecetes phasianellus*
Spruce, see *Canachites canadensis*
Grzybowski, J. A., Responses of Barn Swallows to eggs, young, nests, and nest sites, 236–246
Guanay, see *Phalacrocorax bougainvillii*
Guillemot, Black, see *Cepphus grylle*
Pigeon, see *Cepphus columba*
Gull, Black-headed, see *Larus ridibundus*
Black-tailed, see *Larus crassirostris*
Bonaparte's, see *Larus philadelphia*
Brown-hooded, see *Larus maculipennis*
California, see *Larus californicus*
Glaucous, see *Larus hyperboreus*
Glaucous-winged, see *Larus glaucescens*
Great Black-backed, see *Larus marinus*
Grey-hooded, see *Larus cirrocephalus*
Herring, see *Larus argentatus*
Laughing, see *Larus atricilla*
Lesser Black-backed, see *Larus fuscus*
Mew, see *Larus canus*
Ring-billed, see *Larus delawarensis*
Sabine's, see *Xema sabini*
Silver, see *Larus novaehollandiae*
Western, see *Larus occidentalis*
Gygis alba, 431
Gymnogyps californianus, 166–172
Gymnopithys leucaspis, 424
Gymnorhinus cyanocephalus, 63
Gyps fulvus, 333

H

Habia rubica, 343, 344
Haematopus bachmani, 433
ostralegus, 433
palliatus, 433
Haliaeetus leucocephalus, 218, 311–313
Hall-Craggs, J., Sound spectrographic analysis: suggestions for facilitating auditory imagery, 185–192
Hanka, L. R., Choice of host nest by the Brown-headed Cowbird in Colorado and Wyoming, 436–437
Hannon, S. J., and Zwickel, F. C., Probable non-breeders among female Blue Grouse, 78–82
Hanson, W. C., see Fitzner, R. E.
Harrier, Marsh, see *Circus aeruginosus*
Harrison, C. S., The association of marine birds and feeding Gray Whales, 93–96
Hawk, Bicolored, see *Accipiter bicolor*
Cooper's, see *Accipiter cooperii*
Crane, see *Geranospiza caerulescens*
Gray, see *Buteo nitidus*
Roadside, see *Buteo magnirostris*
Savannah, see *Heterospizias meridionalis*
Heineman, D., see Wahl, T. R.
Helmitheros vermivorus, 99
Hemiprocne comata, 308
longipennis, 308
Hen-harrier, see *Circus cyaneus*
Henicorhina leucosticta, 424
Heron, Black-crowned Night, see *Nycticorax nycticorax*
Great Blue, see *Ardea herodias*
Green, see *Butorides striatus*
Grey, see *Ardea cinerea*
Little Blue, see *Florida caerulea*
Louisiana, see *Hydranassa tricolor*
Northern Green, see *Butorides striatus*
Yellow-crowned Night, see *Nyctanassa violacea*
Herpetotheres cachinnans, 322
Hesperiphona vespertina, 211
Heteronetta atricapilla, 195
Heterospizias meridionalis, 320
Hicks, R. E., Guano deposition in an Oklahoma crow roost, 247–250
Hilsenbeck, S. G., Food of Silvery Grebes (*Podiceps occipitalis*) at Lake Cuicocha, Ecuador, 316
Himantopus himantopus, 333
Himatione sanguinea, 68
Hirsch, K. V., see Roudybush, T. E.
Hirundo rustica, 99, 236
Histrionicus histrionicus, 214
Holmes, R. T., Black, C. P., and Sherry, T. W., Comparative population bioenergetics of three insectivorous passerines in a deciduous forest, 9–20
Honey-guide, Greater, see *Indicator indicator*
Hummingbird, Allen's, see *Selasphorus sasin*
Anna's, see *Calypte anna*
Costa's, see *Calypte costae*
Cuban Bee, see *Calypte helenae*
Hairy Hermit, see *Glaucis hirsuta*
Hunter, D. R., see Eley, J. W.
Hydranassa tricolor, 306
Hydrobates pelagicus, 143, 162
Hylocichla mustelina, 414
Hyloctistes subulatus, 344
Hylexetastes stresemanni, 344
Hylophilus ochraceiceps, 343, 344

I

Ibis, Glossy, see *Plegadis falcinellus*
White, see *Eudocimus albus*
White-faced, see *Plegadis chihi*
Icteria virens, 436
Icterus bullockii, 93
cucullatus, 28, 93
galbula, 28–34, 436
leucopteryx, 98
Iiwi, see *Vestiatia coccinea*
Indicator indicator, 93
Iridoprocne bicolor, 244, 438

J

Jacobs, C. H., see Collias, E. C.
Jaeger, Long-tailed, see *Stercorarius longicaudus*
Parasitic, see *Stercorarius parasiticus*
Pomarine, see *Stercorarius pomarinus*

Jay, Blue, see *Cyanocitta cristata*
Brown, see *Psilorhinus morio*
Mexican, see *Aphelocoma ultramarina*
Piñon, see *Gymnorhinus cyanocephalus*
San Blas, see *Cyanocorax sanblasiana*
Jenkins, J. M., Natural history of the Guam Rail, 404–408
Johnston, D. W., see Cruz, A.
Johnston, D. W., The uropygial gland of the Sooty Tern, 430–432
Junco caniceps, 436
hyemalis, 122, 180, 181, 314
phaeonotus, 180, 181, 314
Junco, Dark-eyed, see *Junco hyemalis*
Gray-headed, see *Junco caniceps*
Yellow-eyed, see *Junco phaeonotus*

K

Kessel, B., Starlings become established at Fairbanks, Alaska, 437–438
Kestrel, American, see *Falco sparverius*
Kiff, L. F., Peakall, D. B., and Wilbur, S. R., Recent changes in California Condor eggshells, 166–172
Kilham, L., Snake and pond snails as food of Grey-necked Wood-rails, 100–101
Kilham, L., and O'Brien, P., Early breeding behavior of Lineated Woodpeckers, 299–303
Kingbird, Tropical, see *Tyrannus melancholicus*
Western, see *Tyrannus verticalis*
Kirbyson, J. W., see Butler, R. W.
Kite, Everglade, see *Rostrhamus sociabilis*
Swallow-tailed, see *Elanoides forficatus*
Kittiwake, Black-legged, see *Rissa tridactyla*
Kiwi, Brown, see *Apteryx australis*
Knopf, F. L., Spatial and temporal aspects of colonial nesting of White Pelicans, 353–363
Koenig, W. D., and Williams, P. L., Notes on the status of Acorn Woodpeckers in Central Mexico, 317–318
Kushlan, J. A., Feeding ecology and prey selection in the White Ibis, 376–389

L

Lagopus lagopus, 216, 261
leucurus, 214, 217–218
mutus, 216
Lamm, D. W., see Russell, S. M.
Land-rail, Banded, see *Rallus philippensis*
Laniarius ferrugineus, 189
Lanio versicolor, 343, 344
Lanius nubicus, 333
Larosterna inca, 431
Larus argentatus, 39, 141, 146–156, 158, 171, 230, 236, 249, 269–271, 295, 394, 427
atricilla, 99, 142, 269–277
californicus, 269–277, 390–396
canus, 94, 275, 295
cirrocephalus, 219, 438–439
crassirostris, 275
delawarensis, 141, 163, 269–277, 295, 432–433
fuscus, 269–277
glaucescens, 213, 275, 295, 390–396
hyperboreus, 94, 295
maculipennis, 274
marinus, 295
novaehollandiae, 118
occidentalis, 116, 295, 390–396
philadelphia, 94
ridibundus, 146–156, 269–277, 333
Leafscraper, Black-tailed, see *Sclerurus caudacutus*
Leiothrix lutea, 68
Leiothrix, Red-billed, see *Leiothrix lutea*
Lemke, T. O., Fruit-eating behavior of Swallow-tailed Kites (*Elanoides forficatus*) in Colombia, 207–208
Leptasthenura fulifiniceps, 208
Leptopogon amaurocephalus, 344
superciliaris, 287
Leptotila jamaicensis, 98
verreauxi, 90
Leucopsar rothschildi, 205
Leucosticte tephrocotis, 213
Levenson, H., Time and activity budget of Ospreys nesting in northern California, 364–369
Lill, A., Nest inattentiveness and its influence on development of the young in the Superb Lyrebird, 225–231
Limosa lapponica, 294–298
Limpkin, see *Aramus guarauna*
Lobipes lobatus, 295
Lonchura fuscans, 90
Longspur, Lapland, see *Calcarius lapponicus*
Loon, Common, see *Gavia immer*
Yellow-billed, see *Gavia adamsii*
Lophortyx californicus, 282
Loria loriae, 203
Loxia curvirostra, 212
Loxops coccinea, 68
virens, 68
Lunda cirrhata, 214, 295
Lundberg, C.-A., and Vaisanen, R. A., Selective correlation of egg size with chick mortality in the Black-headed Gull (*Larus ridibundus*), 146–156
Lyrebird, Superb, see *Menura superba*
Lyrurus tetrix, 261

M

Mader, W. J., First nest description for the genus *Micrastur* (Forest Falcons), 320
Malcoha, Raffles', see *Phoenicophaeus chlorophaeus*
Mallard, see *Anas platyrhynchos*
Manacus manacus, 289
vitellinus, 90
Manakin, Golden-collared, see *Manacus vitellinus*
Red-capped, see *Pipra mentalis*
White-bearded, see *Manacus manacus*
White-ruffed, see *Corapipo altera*
Mango, Green-breasted, see *Anthracothorax prevostii*
Manuwal, D. A., Reproductive committment and success of Cassin's Auklet, 111–121
Martin, D. J., Songs of the Fox Sparrow. II Intra- and Interpopulation variation, 173–184
Martin, D. J., see Dixon, K. L.
Martin, House, see *Delichon urbica*
Matsui, M., see Baptista, L. F.
McAlary, F., see Collias, E. C.
McClure, H. E., Nesting of the White-whiskered Tree Swift in Malaya, 308–311
McEllin, S. M., Nest sites and population demographics of White-breasted and Pigmy nuthatches in Colorado, 348–352
Meadowlark, Western, see *Sturnella neglecta*
Megaceryle alcyon, 99
Megadyptes antipodes, 36
Melanerpes carolinus, 122–132
erythrocephalus, 6, 122–132
formicivorus, 1–7, 317–318
lewis, 6
superciliaris, 373, 374
Melanitta fusca, 36
Meleagris gallopavo, 293
Melopsittacus undulatus, 333
Melospiza lincolnii, 436
melodia, 39, 143, 173, 181, 214, 279, 314
Menura superba, 225–231

Mergus serrator, 432
Merlin, see *Falco columbarius*
Micrastur mirandollei, 345
semitorquatus, 320
Microbates cinereiventris, 101
collaris, 101–102
Microrhopias quixensis, 340, 343–344
Mimus gilvus, 98
Mionectes olivaceus, 344
Mniotilta varia, 99
Mockingbird, Galápagos, see *Nesomimus parvulus*
Tropical, see *Mimus gilvus*
Molothrus ater, 21, 244, 249, 304, 427, 436–437
Morrison, M. L., Eggshell thickness changes in Pacific Ocean Phaethontidae and Sulidae, 209
Morton, M. L., Fecal sac ingestion in the Mountain White-crowned Sparrow, 72–77
Morus bassanus, 39, 432
Munia, Dusky, see *Lonchura fuscans*
Munn, C. A., Terborgh, J. W., Multi-species territoriality in neotropical foraging flocks, 338–347
Murre, Common, see *Uria aalge*
Thick-billed, see *Uria lomvia*
Murrelet, Ancient, see *Synthliboramphus antiquus*
Muscicapa striata, 333
Mycteria americana, 378
Myiodynastes maculatus, 301
Myna, Common, see *Acridotheres tristis*
Rothschild's, see *Leucopsar rothschildi*
Myrmoborus myotherinus, 344
Myrmotherula axillaris, 304–341, 342, 344
brachyura, 340, 343, 344
hauxwelli, 340, 343
iheringi, 340, 341, 342, 344
leucophthalma, 340, 343, 344
longipennis, 340, 342, 344
menetriesii, 341, 342, 344
ornata, 344

N

Nectarinia osea, 333, 336
Neill, R. L., see Sharp, M. S.
Nesomimus parvulus, 398
Norman, D. O., see Smith, D. G.
Numenius phaeopus, 99
Nutallornis borealis, 436
Nuthatch, Pigmy, see *Sitta pygmaea*
White-breasted, see *Sitta carolinensis*
Nyctanassa violacea, 306, 398
Nyctea scandiaca, 213–214, 230
Nyctibius grandis, 320–321, 322
griseus, 322
Nycticorax nycticorax, 244, 306, 333

O

O'Brien, P., see Kilham, L.
Oceanodroma castro, 157
furcata, 157–165, 214, 390–396
homochroa, 164
leucorhoa, 102–103, 157, 214
tethys, 162
Oceanites oceanicus, 162, 230
O'Connor, R. J., Egg weights and brood reduction in the European Swift (*Apus apus*), 133–145
Ogilvie, M. A., see Owen, M.
Omao, see *Phaeornis obscurus*
Oniki, Y., and Willis, E. P., A nest of the Collared Gnatwren (*Microbates collaris*), 101–102
Oporornis formosus, 99
Oriole, Bullock's, see *Icterus bullockii*
Hooded, see *Icterus cucullatus*
Jamaican, see *Icterus leucopteryx*
Northern, see *Icterus galbula*
Osprey, see *Pandion haliaetus*
Ostrich, see *Struthio camelus*
Ovenbird, see *Seiurus aurocapillus*
Owen, M., and Ogilvie, M. A., Wing molt and weights of Barnacle Geese in Spitsbergen, 42–52
Owl, Great Horned, see *Bubo virginianus*
Short-eared, see *Asio flammeus*
Snowy, see *Nyctea scandiaca*
Oystercatcher, American, see *Haematopus palliatus*
Black, see *Haematopus bachmani*
European, see *Haematopus ostralegus*

P

Pachyptila desolata, 162
Paganelli, C. V., see Ar, A.
Pagodroma nivea, 162
Pandion haliaetus, 364–369
Parker, T. A., III, see Eley, J. W.
Parrot, Red-lored, see *Amazona autumnalis*
White-crowned, see *Pionis senilis*
Partridge, see *Perdix perdix*
Parula americana, 99, 100
Parula, Northern, see *Parula americana*
Parus atricapillus, 421
caeruleus, 155
carolinensis, 261, 421, 420
gambeli, 421
hudsonicus, 423
inornatus, 421
major, 36, 133, 143, 153
sclateri, 421–423
Passer domesticus, 86, 93, 141, 195, 236, 251, 267, 333, 427, 431, 436
moabiticus, 333
montanus, 104
Passerculus sandwichensis, 196
Passerella iliaca, 173–184, 204, 278
Passerina amoena, 182, 436
cyanea, 99, 143
Patten, S. M., see Roudybush, T. E.
Paulson, D. R., see Perrone, Jr., M.
Peakall, D. B., see Kiff, L. F.
Pearson, O. P., Spacing and orientation among feeding Golden-crowned Sparrows, 278–285
Pedioecetes phasianellus, 261
Pelagodroma marina, 162
Pelecanus conspicillatus, 359
erythrorhynchos, 353–363
occidentalis, 170, 209, 361
onocrotalus, 359
rufescens, 359
Pelican, Australian, see *Pelecanus conspicillatus*
Brown, see *Pelecanus occidentalis*
European White, see *Pelecanus onocrotalus*
Pink-backed, see *Pelecanus rufescens*
White, see *Pelecanus erythrorhynchos*
Penguin, Adélie, see *Pygoscelis adeliae*
Emperor, see *Aptenodytes forsteri*
Little, see *Eudyptula minor*
Yellow-eyed, see *Megadyptes antipodes*
Perdix perdix, 429
Perrone, Jr., M., and Paulson, D. R., Incidence of distress calls in mist-netted birds, 423–424
Perry, D. R., The Great Potoo in Costa Rica, 320–321
Peterson, M. R., see Roudybush, T. E.
Petrel, Gray-faced, see *Pterodroma macroptera*
Mottled, see *Pterodroma inexpectata*
Snow, see *Pagodroma nivea*
Storm, see *Hydrobates pelagicus*
Petrochelidon pyrrhonota, 438
Peewee, Western Wood, see *Contopus sordidulus*
Phaeornis obscurus, 65–71
Phaethon rubricauda, 209

Phalacrocorax aristotelis, 39, 143
auritus, 209
bougainvillii, 118, 248
pelagicus, 213
penicillatus, 116
urile, 213
Phalarope, Northern, see *Lobipes lobatus*
Red, see *Phalaropus fulicarius*
Phalaropus fulicarius, 295
Phasianus colchicus, 333
Pheucticus ludovicianus, 99
Philydor ruficaudatus, 342, 344
rufus, 344
Phoebe, Say's, see *Sayornis saya*
Phoenicophaeus chlorophaeus, 309
Picoides borealis, 372
pubescens, 122–132, 302, 372
villosus, 372
Piculet, Rufous-breasted, see *Picumnus rufiventris*
Picumnus rufiventris, 344
Pigeon, White-crowned, see *Columba leucocephala*
Wood, see *Columba palumbus*
Pinkowski, B. C., Effect of nesting history on egg size in Eastern Bluebirds, 210
Pinkowski, B. C., Nest site selection in Eastern Bluebirds, 435–436
Pintail, see *Anas acuta*
Pionis senilis, 301
Pipilo erythrophthalmus, 313–316
fuscus, 282
Pipra mentalis, 90
Pipromorpha macconnelli, 286
oleaginea, 286–292, 344
rufiventris, 286
Piranga ludoviciana, 93
Platypsaris minor, 344
Pleasants, B. Y., Adaptive significance of the variable dispersion patterns of breeding Northern Orioles, 28–34
Plectrophenax nivalis, 214
Plegadis chihi, 306
falcinellus, 306
Ploceus cucullatus, 91–93
Podiceps occipitalis, 316
Podilymbus podiceps, 431, 432
Porzanula palmeri, 405
Potoo, Common, see *Nyctibius griseus*
Great, see *Nyctibius grandis*
Prickletail, Spectacled, see *Siptornis striaticollis*
Prince, H. H., see Batts, B. D. J.
Prinia gracilis, 333
Prion, Dove, see *Pachyptila desolata*
Prion, Fairy, see *Pachyptila turtur*
Procellaria tenuirostris, 36
Protonotaria citrea, 99
Psilorhinus morio, 301
Ptarmigan, Rock, see *Lagopus mutus*
White-tailed, see *Lagopus leucurus*
Pterodroma inexpectata, 162
macroptera, 162
Pteroglossus torquatus, 301
Ptychoramphus aleuticus, 111–121, 214, 295
Puffin, Horned, see *Fratercula corniculata*
Tufted, see *Lunda cirrhata*
Puffinus bulleri, 390–396
carneipes, 390–396
creatopus, 390–396
gravis, 323
griseus, 94, 162, 323, 390–396
puffinus, 36, 162
tenuirostris, 94
Pycnonotus capensis, 333
Pygiptila stelleris, 344
Pygmy-owl, Ferruginous, see *Glaucidium brasilianum*
Pygmy-tyrant, Helmeted, see *Colopteryx galeatus*
Pygoscelis adeliae, 36, 431
Pyrrhula pyrrhula, 195

Q

Quail, California, see *Lophortyx californicus*
Common, see *Coturnix coturnix*
Japanese, see *Coturnix coturnix*
Quiscalus mexicanus, 304, 411, 427
quiscula, 143, 248, 304, 427, 436

R

Rahn, H., see Ar, A.
Raikow, R. J., Borecky, S. R., and Berman, S. L., The evolutionary re-establishment of a lost ancestral muscle in the bowerbird assemblage, 203–206
Rail, Barred, see *Rallus torquatus*
Guam, see *Rallus owstoni*
Laysan, see *Porzanula palmeri*
Rallus owstoni, 404–408
philippensis, 404
torquatus, 404
Ramphocaenus melanurus, 101
Ratcliffe, L. M., see Boag, P. T.
Ray, T. D., see Braun, O. E.
Redhead, see *Aythya americana*
Redpoll, Common, see *Carduelis flammea*
Hoary, see *Carduelis hornemanni*
Lesser, see *Carduelis flammea*
Redstart, American, see *Setophaga ruticilla*
Reid, V. H., see Braun, O. E.
Ridgely, R. S., and Wilcove, D., First nesting record of Gray-hooded Gull from Ecuador, 438–439
Riparia riparia, 99, 236
Rissa tridactyla, 39, 94, 116, 152, 213, 295, 394
Roadrunner, see *Geococcyx californianus*
Roberts, R. C., Habitat and resource relationships in Acorn Woodpeckers, 1–8
Robin, American, see *Turdus migratorius*
Pale-vented, see *Turdus fumigatus*
Robin-chat, Blue-shouldered, see *Cossypha cyanocampter*
Rostrhamus sociabilis, 101
Roudybush, T. E., Grau, C. R., Peterson, M. R., Ainley, D. G., Hirsch, K. V., Gilman, A. P., and Patten, S. M., Yolk formation in some charadriiform birds, 293–298
Russell, S. M., Barlow, J. C., and Lamm, D. W., Status of some birds on Isla San Andres and Isla Providencia, Colombia, 98–100
Rutledge, J. T., see Schwab, R. G.

S

Sandpiper, Rock see *Calidris ptilocnemis*
Western, see *Calidris mauri*
Sayornis saya, 436
Schwab, R. G., and Rutledge, J. T., Photophase and testicular recrudescence in European Starlings, 265–268
Sclerurus caudacutus, 344
Scoters, Velvet, see *Melanitta fusca*
Scott, J. M., see van Riper III, C.
Scytalopus magellanicus, 208
superciliaris, 208
Scythebill, Red-billed, see *Campylorhamphus trochilirostris*
Searcy, W. A., Size and mortality in male Yellow-headed Blackbirds, 304–305
Searcy, W. A., Morphological correlates of dominance in captive male Red-winged blackbirds, 417–420
Seiurus aurocapillus, 31, 99, 182
noveboracensis, 99

Selasphorus sasin, 88
Setophaga ruticilla, 99, 100
Shag, see *Phalacrocorax aristotelis*
Sharp, M. S., and Neill, R. L., Physical deformities in a population of wintering blackbirds, 427–320
Shearwater, Buller's, see *Puffinus bulleri*
Flesh-footed, see *Puffinus carneipes*
Manx, see *Puffinus puffinus*
Pink-footed, see *Puffinus creatopus*
Short-tailed, see *Procellaria tenuirostris*
Sooty, see *Puffinus griseus*
Sherry, T. T., see Holmes, R. T.
Shields, G. F., see Troy, D. M.
Short, J. J., Patterns of alpha-diversity and abundance in breeding bird communities across North America, 21–27
Shoveler, Northern, see *Anas clypeata*
Shrike-tanager, White-winged, see *Lanio versicolor*
Sialia sialis, 210, 435–436
Siptornis striaticollis, 319
Siskin, Eurasian, see *Carduelis spinus*
Pine, see *Carduelis pinus*
Sitta carolinensis, 122–132, 348–352
pygmaea, 348–352
Sittasomus griseicapillus, 341, 343, 344
Skua, see *Catharacta skua*
Slud, P., First record of Leach's Storm-petrel in Costa Rica: a correction, 102–103
Slud, P., Calls of the Great Potoo, 322
Snow, B. K., and Snow, D. W., The Ochre-bellied Flycatcher and the evolution of lek behavior, 286–292
Snow, D. W., see Snow, B. K.
Smith, D. G., and Norman, D. O., "Leader-follower" singing in Red-winged Blackbirds, 83–85
Somateria mollissima, 36, 427
Sparrow, Brewer's, see *Spizella breweri*
Eurasion Tree, see *Passer montanus*
Field, see *Spizella pusilla*
Fox, see *Passerella iliaca*
Golden-crowned, see *Zonotrichia atricapilla*
Harris, see *Zonotrichia querula*
House, see *Passer domesticus*
Ipswich, see *Passerculus sandwichensis*
Lincoln's, see *Melospiza lincolnii*
Rufous-collared, see *Zonotrichia capensis*
Song, see *Melospiza melodia*
White-crowned, see *Zonotrichia leucophrys*
White-throated, see *Zonotrichia albicollis*
Spizella breweri, 436
pusilla, 251–257, 261, 304
Spoonbill, Roseate, see *Ajaia ajaja*
Starling European, see *Sturnus vulgaris*
Stelgidopteryx ruficollis, 244
Stercorarius longicaudus, 394
parasiticus, 213, 390
pomarinus, 390
Sterna albifrons, 430
anaethetus, 431
caspia, 430, 431
forsteri, 431
fuscata, 236, 430–432
hirundo, 146, 162, 170, 269, 333, 431
maxima, 99, 236, 431
paradisaea, 94, 152, 274, 295, 431
sandvicensis, 361, 431
Stiles, E. W., Nest and eggs of the White-browed Tapaculo (*Scytalopus superciliaris*), 208
Stork, Wood, see *Mycteria americana*
Storm-petrel, see *Hydrobates pelagicus*
Ashy, see *Oceanodroma homochroa*
Black-bellied, see *Fregetta tropica*
Fork-tailed, see *Oceanodroma furcata*
Galápagos, see *Oceanodroma tethys*
Leach's, see *Oceanodroma leucorhoa*
Madeiran, see *Oceanodroma castro*
White-faced, see *Pelagodroma marina*
Wilson's, see *Oceanites oceanicus*
Streptopelia decaocto, 333
risoria, 162, 333, 335
senegalensis, 333
turtur, 333
Strix aluco, 333
Struthio camelus, 194, 333
Sturnella neglecta, 314
Sturnus vulgaris, 74, 244, 265–268, 429, 437–438
Sula dactylatra, 209, 360
leucogaster, 209, 360
sula, 209
Sulzbach, D. S., and Cooke, F., Demographic parameters of a nesting colony of Snow Geese, 232–235
Sunbird, Palestine, see *Nectarinia osea*
Swallow, Bank, see *Riparia riparia*
Barn, see *Hirundo rustica*
Cliff, see *Petrochelidon pyrrhonota*
Mangrove, see *Tachycineta albilinea*
Rough-winged, see *Stelgidopteryx ruficollis*
Tree, see *Iridoprocne bicolor*
Violet-green, see *Tachycineta thalassina*
Swan, Mute, see *Cygnus olor*
Swift, European, see *Apus apus*
Swiftlet, Vanikoro, see *Collocallia vanikorensis*
Sylvia borin, 193
Synthliboramphus antiquus, 214

T

Tachycineta albilinea, 90
thalassina, 438
Tachyphonus rufiventer, 344
Tanager, Green-and-Gold, see *Tangara schrankii*
Palm, see *Thraupis palmarum*
Silver-throated, see *Tangara icterocephala*
Western, see *Piranga ludoviciana*
Yellow-crested, see *Tachyphonus rufiventer*
Tangara icterocephala, 424
schrankii, 344
Tapaculo, Andean, see *Scytalopus magellanicus*
White-browed, see *Scytalopus superciliaris*
Teal, Blue-winged, see *Anas discors*
Green-winged, see *Anas crecca*
Teratornis merriami, 197
Terborgh, J. W., see Munn, C. A.
Terenura callinota, 319
Tern, Arctic, see *Sterna paradisaea*
Bridled, see *Sterna anaethetus*
Common, see *Sterna hirundo*
Noddy, see *Anous stolidus*
Royal, see *Sterna maximus*
Sandwich, see *Sterna sandvicensis*
Sooty, see *Sterna fuscata*
Tetrao urogallus, 229
Thamnomanes ardesiacus, 339, 342, 344
schistogynus, 339, 342, 344
Thamnophilus aethiops, 344
punctatus, 90
schistaceus, 344
Thompson, W. L., Suggestions for preparing audiospectrograms for publication, 220–221
Thrasher, Brown, see *Toxostoma rufum*
California, see *Toxostoma redivivum*
Thraupis palmarum, 205
Thrush, Black-billed, see *Turdus ignobilis*
Clay-colored, see *Turdus grayi*
European song, see *Turdus philomelos*

Great, see *Turdus fuscater*
Hermit, see *Catharus guttatus*
Mistle, see *Turdus viscivorus*
New Zealand, see *Turnagra capensis*
Rufous-backed, see *Turdus rufopalliatus*
Song, see *Turdus philomelos*
White-necked, see *Turdus assimilis*
Wood, see *Hylocichla mustelina*
Thryothorus ludovicianus, 261
Tiaris bicolor, 100
Tit, Blue, see *Parus caeruleus*
Great, see *Parus major*
Titmouse, Plain, see *Parus inornatus*
Tit-spinetail, Brown-capped, see *Leptasthenura fuliginiceps*
Tityra, Black-tailed, see *Tityra cayana*
Masked, see *Tityra semifasciata*
Tityra cayana, 301
semifasciata, 301
Tolmomyias assimilis, 344
sulphurescens, 290
Towhee, Brown, see *Pipilo fuscus*
Rufous-sided, see *Pipilo erythrophthalmus*
Toxostoma redivivum, 282
rufum, 251–257
Tree Swift, Grey-rumped, see *Hemiprocne longipennis*
Lesser, see *Hemiprocne comata*
Troglodytes aedon, 39, 143, 210
troglodytes, 213
Tropicbird, Red-tailed, see *Phaethon rubricauda*
Trout, J. R., see Burger, J.
Troy, D. M., and Shields, G. F., Multiple nesting attempts by Alaskan Redpolls, 96–98
Turdus assimilis, 414
fumigatus, 409
fuscater, 414
grayi, 414
ignobilis, 414
merula, 53, 189, 333, 409
migratorius, 251–257, 409, 429, 436
philomelos, 67, 143
plebejus, 414
rufopalliatus, 409–416
viscivorus, 409
Turkey, see *Meleagris gallopavo*
Turnagra capensis, 203
Turnstone, Ruddy, see *Arenaria interpres*
Tympanuchus cupido, 261
Tyrannus melancholicus, 196
tyrannus, 99
verticalis, 31
Tyto alba, 333

U

Uria aalge, 213, 236, 295
lomvia, 213
Uroctonus cazieri, 341

V

Vaisanen, R. A., see Lundberg, C.-A.
van Riper III, C., and Scott, J. M., Observations on distribution, diet and breeding of the Hawaiian Thrush, 65–71
Veery, see *Catharus fuscescens*
Vermivora peregrina, 99, 100
Vestiaria coccinea, 68
Vireo, Black-whiskered, see *Vireo altiloquus*
Red-eyed, see *Vireo olivaceus*
San Andres, see *Vireo caribaeus*
Solitary, see *Vireo solitarius*
Thick-billed, see *Vireo crassirostris*
Warbling, see *Vireo gilvus*
Vireo altiloquus, 98
caribaeus, 98
crassirostris, 98
gilvus, 436
olivaceus, 9–20
solitarius, 436
Vleck, C. M., and Vleck, D., Metabolic rate in five tropical species, 89–91
Vleck, D., see Vleck, C. M.
Vultur gryphus, 170
Vulture, Black, see *Coragyps atratus*
Turkey, see *Cathartes aura*

W

Wahl, T. R., and Heinemann, D., Seabirds and fishing vessels: Co-occurrence and attraction, 390–396
Warbler, Blackpoll, see *Dendroica striata*
Black-throated Blue, see *Dendroica caerulescens*
Garden, see *Sylvia borin*
Hooded, see *Wilsonia citrina*
Prairie, see *Dendroica discolor*
Reed, see *Acrocephalus scirpaceus*
Sedge, see *Acrocephalus schoenobaenus*
Tennessee, see *Vermivora peregrina*
Worm-eating, see *Helmitheros vermivorus*
Yellow, see *Dendroica petechia*
Ward, E. K., see Bluhm, C. K.
Wasserman, F. E., The relationship between habitat and song in the White-throated Sparrow, 424, 426
Waterthrush, Northern, see *Seiurus noveboracensis*
Weatherhead, P. J., Behavioral implications of the defense of a Shoveler brood by Common Eiders, 427
Weaverbird, Village, see *Ploceus cucullatus*
Wheelwright, N. T., see Boersma, P. D.
White-eye, Japanese, see *Zosterops japonica*
Wigeon, American, see *Anas americana*
Wilbur, S. R., see Kiff, L. F.
Wilcove, D., see Ridgely, R. S.
Williams, J. B., and Batzli, G. O., Competition among bark-foraging birds in Central Illinois: experimental evidence, 122–132
Williams, P. L., and Frank, L. G., Diet of the Snowy Owl in the absence of small mammals, 213–214
Williams, P. L., see Koenig, W. D.
Willis, E. O., see Oniki, Y.
Wilsonia citrina, 99
Woodcreeper, Bar-bellied, see *Hylexetastes stresemanni*
Buff-throated, see *Xiphorhynchus guttatus*
Cinnamon-throated, see *Dendrexetastes rufigula*
Long-tailed, see *Deconychura longicauda*
Olivaceous, see *Sittasomus griseicapillus*
Spix's, see *Xiphorhynchus spixii*
Striped, see *Xiphorhynchus obsoletus*
Wedge-billed, see *Glyphorynchus spirurus*
Woodhaunter, Striped, see *Hyloctistes subulatus*
Woodpecker, Acorn, see *Melanerpes formicivorus*
Crimson Crested, see *Campephilus melanoleucos*
Downy, see *Picoides pubescens*
Hairy, see *Picoides villosus*
Lewis', see *Melanerpes lewis*
Lineated, see *Dryocopus lineatus*
Pale-billed, see *Campephilus guatemalensis*
Pileated, see *Drycopus pileatus*
Red-bellied, see *Melanerpes superciliaris*
Red-bellied, see *Melanerpes carolinus*
Red-cockaded, see *Picoides borealis*
Red-headed, see *Melanerpes erythrocephalus*
Wood-rail, Grey-necked, see *Aramides cajanea*
Woodswallow, White-breasted, see *Artamus leucorhynchus*

Wood-wren, White-breasted, see *Henicorhina leucosticta*
Wren, Cactus, see *Campylorhynchus brunneicapillus*
Carolina, see *Thryothorus ludovicianus*
House, see *Troglodytes aedon*
Musician, see *Cyphorhinus aradus*
Winter, see *Troglodytes troglodytes*

X

Xanthocephalus xanthocephalus, 25, 304–305, 427–430, 437
Xema sabini, 295, 390–396
Xenops minutus, 343, 344
rutilans, 319
Xenops, Plain, see *Xenops minutus*
Xiphorhynchus guttatus, 90, 344
obsoletus, 341, 343, 344
spixii, 344

Y

Yasukawa, K., Territory establishment in Red-winged Blackbirds: Importance of aggressive behavior and experience, 258–264
Yellowthroat, Common, see *Geothlypis trichas*

Z

Zenaida asiatica, 98
galapagoensis, 397–403
macroura, 96, 251–257, 282, 436
Zonotrichia albicollis, 63, 180, 194, 417, 424–426
atricapilla, 122, 278–285
capensis, 180, 261, 426
leucophrys, 72–77, 180, 181
querula, 284, 417
Zosterops japonica, 68
Zwickel, F. C., see Hannon, S. J.

THE CONDOR

JOURNAL OF THE COOPER ORNITHOLOGICAL SOCIETY

VOLUME 81

PETER STETTENHEIM, *Editor*

GARY D. SCHNELL, CHARLES R. BLEM, CARL E. BOCK,
and MILLICENT S. FICKEN, *Associate Editors*

HELEN CURCIO and SUZANNE NOTHNAGLE, *Editorial Assistants*

LEBANON, NEW HAMPSHIRE

1979

CONTENTS, VOLUME 81, 1979

NUMBER 1 (February)

Habitat and Resource Relationships in Acorn Woodpeckers ..... *Robert C. Roberts* 1
Comparative Population Bioenergetics of Three Insectivorous Passerines in a Deciduous Forest
Richard T. Holmes, Craig Patrick Black and *Thomas W. Sherry* 9
Patterns of Alpha-diversity and Abundance in Breeding Bird Communities across North America
Jeffrey J. Short 21
Adaptive Significance of the Variable Dispersion Pattern of Breeding Northern Orioles
Barbara Yohai Pleasants 28
Laying Dates, Clutch Size and Egg Weight of Captive Mallards
Bruce D. J. Batt and *Harold H. Prince* 35
Wing Molt and Weights of Barnacle Geese in Spitsbergen .... *Myrfyn Owen* and *M. A. Ogilvie* 42
Graded Frequency Variations of the Tremolo Call of the Common Loon .. *William E. Barklow* 53
Observations on Distribution, Diet, and Breeding of the Hawaiian Thrush
Charles van Riper III and *J. Michael Scott* 65
Fecal Sac Ingestion in the Mountain White-crowned Sparrow ..... *Martin L. Morton* 72
Probable Non-breeders among Female Blue Grouse ..... *Susan J. Hannon* and *Fred C. Zwickel* 78

SHORT COMMUNICATIONS

"Leader-Follower" Singing in Red-winged Blackbirds
Douglas G. Smith and *Douglas O. Norman* 83
On the Function of Prey Beating by Roadrunners ..... *Kathleen G. Beal* and *Linda D. Gillam* 85
The Source of the Dive-noise of the Anna's Hummingbird
Luis F. Baptista and *Margaret Matsui* 87
Metabolic Rate in Five Tropical Bird Species ..... *Carol M. Vleck* and *David Vleck* 89
Experimental Evidence for Facilitation of Pair Formation by Bright Color in Weaverbirds
E. C. Collias, N. E. Collias, C. H. Jacobs, F. McAlary and *J. T. Fujimoto* 91
The Association of Marine Birds and Feeding Gray Whales ..... *Craig S. Harrison* 93
Additional Records of White-winged Doves in Colorado
Clait E. Braun, Vincent H. Reid, Tom D. Ray and *Roger L. Boyd* 96
Multiple Nesting Attempts by Alaskan Redpolls ..... *Declan M. Troy* and *Gerald F. Shields* 96
Status of Some Birds on Isla San Andres and Isla Providencia, Colombia
Stephen M. Russell, Jon C. Barlow and *Donald W. Lamm* 98
Snake and Pond Snails as Food of Grey-necked Wood-Rails ..... *Lawrence Kilham* 100
A Nest of the Collared Gnatwren (*Microbates collaris*) ..... *Yoshika Oniki* and *Edwin O. Willis* 101
First Record of Leach's Storm-Petrel in Costa Rica: A Correction ..... *Paul Slud* 102
THE BULLETIN BOARD 103
SPECIAL REPORT:
Ornithology in the People's Republic of China (PRC) ..... *Robert J. Grimm* 104
NEWS AND NOTES 110
RECENT PUBLICATIONS 8, 20, 27, 41, 52

NUMBER 2 (May)

Reproductive Commitment and Success of Cassin's Auklet ..... *David A. Manuwal* 111
Competition among Bark-foraging Birds in Central Illinois: Experimental Evidence
Joseph B. Williams and *George O. Batzli* 122
Egg Weights and Brood Reduction in the European Swift (*Apus apus*) .. *Raymond J. O'Connor* 133
Selective Correlation of Egg Size with Chick Mortality in the Black-headed Gull (*Larus ridibundus*) ..... *Carl-Anders Lundberg* and *Risto A. Väisänen* 146
Egg Neglect in the Procellariiformes: Reproductive Adaptations in the Fork-tailed Storm-Petrel ..... *P. Dee Boersma* and *Nathaniel T. Wheelwright* 157
Recent Changes in California Condor Eggshells
Lloyd F. Kiff, David B. Peakall, and *Sanford R. Wilbur* 166
Songs of the Fox Sparrow. II. Intra- and Interpopulation Variation ..... *Dennis J. Martin* 173
Sound Spectrographic Analysis: Suggestions for Facilitating Auditory Imagery
Joan Hall-Craggs 185
Body Weights of Birds: A Review ..... *George A. Clark, Jr.* 193
The Evolutionary Re-establishment of a Lost Ancestral Muscle in the Bowerbird Assemblage
Robert J. Raikow, Stephen R. Borecky, and *Susan L. Berman* 203

SHORT COMMUNICATIONS

Fruit-eating Behavior of Swallow-tailed Kites (*Elanoides forficatus*) in Colombia
Thomas O. Lemke 207
Nest and Eggs of the White-browed Tapaculo (*Scytalopus superciliaris*) ..... *Edmund W. Stiles* 208

Eggshell Thickness Changes in Pacific Ocean Phaethontidae and Sulidae
Michael L. Morrison 209
Effect of Nesting History on Egg Size in Eastern Bluebirds ... *Benedict C. Pinkowski* 210
Behavioral Flexibility of Pine Siskins in Mixed Species Foraging Groups
David F. Balph and *Martha Hatch Balph* 211
Diet of the Snowy Owl in the Absence of Small Mammals
Pamela L. Williams and *Laurence G. Frank* 213
Nesting Behavior of Female White-tailed Ptarmigan in Colorado
Kenneth M. Giesen and *Clait E. Braun* 215
Renesting of White-tailed Ptarmigan in Colorado ... *Kenneth M. Giesen* and *Clait E. Braun* 217
Golden Eagle Nest on Kodiak Island, Alaska ... *Vernon D. Berns* 218
First Record of a Blackpoll Warbler for the Galápagos ... *Peter T. Boag* and *Laurene M. Ratcliffe* 218
A Second Breeding Record for the Grey-hooded Gull (*Larus cirrocephalus*) on the Coast of Peru ... *David C. Duffy* and *Natasha Atkins* 219
A Seven-Egg Clutch for the Cooper's Hawk ... *David H. Ellis* and *Greg Depner* 219
Suggestions for Preparing Audiospectrograms for Publication ... *William L. Thompson* 220
THE BULLETIN BOARD ... 221
NEWS AND NOTES ... 222
RECENT PUBLICATIONS ... 121, 145, 156, 165, 172, 202

NUMBER 3 (August)

Nest Inattentiveness and its Influence on Development of the Young in the Superb Lyrebird
Alan Lill 225
Demographic Parameters of a Nesting Colony of Snow Geese ... *D. S. Sulzbach* and *F. Cooke* 232
Responses of Barn Swallows to Eggs, Young, Nests, and Nest Sites ... *Joseph A. Grzybowski* 236
Guano Deposition in an Oklahoma Crow Roost ... *Randall E. Hicks* 247
Anti-predator Aggression in Birds Nesting in Old Field Habitats: An Experimental Analysis
Bradley M. Gottfried 251
Territory Establishment in Red-winged Blackbirds: Importance of Aggressive Behavior and Experience ... *Ken Yasukawa* 258
Photophase and Testicular Recrudescence in European Starlings
Robert G. Schwab and *James T. Rutledge* 265
Competition and Predation: Herring Gulls versus Laughing Gulls ... *Joanna Burger* 269
Spacing and Orientation among Feeding Golden-crowned Sparrows ... *Oliver P. Pearson* 278
The Ochre-bellied Flycatcher and the Evolution of Lek Behavior
Barbara K. Snow and *D. W. Snow* 286
Yolk Formation in Some Charadriiform Birds ... *T. E. Roudybush, C. R. Grau, M. R. Petersen, D. G. Ainley, K. V. Hirsch, A. P. Gilman* and *S. M. Patten* 293
Early Breeding Behavior of Lineated Woodpeckers ... *Lawrence Kilham* and *Patricia O'Brien* 299

SHORT COMMUNICATIONS

Size and Mortality in Male Yellow-headed Blackbirds ... *William A. Searcy* 304
Additional Data on Body Size as a Difference Related to Niche
Joanna Burger and *J. Richard Trout* 305
Great Horned Owl Predation on a Short-eared Owl ... *Cynthia K. Bluhm* and *E. Kevin Ward* 307
Nesting of the White-whiskered Tree Swift in Malaya ... *H. Elliott McClure* 308
A Congregation of Wintering Bald Eagles ... *R. E. Fitzner* and *W. C. Hanson* 311
Development of Song of a Rufous-sided Towhee Raised in Acoustic Isolation ... *David N. Ewert* 313
Food of Silvery Grebes (*Podiceps occipitalis*) at Lake Cuicocha, Ecuador ... *Susan G. Hilsenbeck* 316
Notes on the Status of Acorn Woodpeckers in Central Mexico
Walter D. Koenig and *Pamela L. Williams* 317
Notes on *Siptornis striaticollis* (Furnariidae) in Peru
J. William Eley, Gary R. Graves, Theodore A. Parker, III and *David R. Hunter* 319
First Nest Description for the Genus *Micrastur* (Forest Falcons) ... *William J. Mader* 320
The Great Potoo in Costa Rica ... *Donald R. Perry* 320
Calls of the Great Potoo ... *Paul Slud* 322
Greater Shearwater in Costa Rica ... *Gail Speaker Carr* 323
COMMENTARY ... 324
NEWS AND NOTES ... 325
TREASURER'S REPORT ... 328
RECENT PUBLICATIONS ... 250, 257, 268, 277, 285, 298
THE BULLETIN BOARD ... 328

NUMBER 4 (November)

The Avian Egg: Mass and Strength ... *Amos Ar, Hermann Rahn* and *Charles V. Paganelli* 331

Multi-species Territoriality in Neotropical Foraging Flocks
Charles A. Munn and *John W. Terborgh* 338
Nest Sites and Population Demographies of White-breasted and Pigmy Nuthatches in Colorado
Shaun M. McEllin 348
Spatial and Temporal Aspects of Colonial Nesting of White Pelicans ..... *Fritz L. Knopf* 353
Time and Activity Budget of Ospreys Nesting in Northern California ..... *Howard Levenson* 364
Occurrence and Feeding Ecology of the Common Flicker on Grand Cayman Island
Alexander Cruz and *David W. Johnston* 370
Feeding Ecology and Prey Selection in the White Ibis ..... *James A. Kushlan* 376
Seabirds and Fishing Vessels: Co-occurrence and Attraction
Terence R. Wahl and *Dennis Heinemann* 390
Breeding and Feeding Ecology of the Galápagos Dove ..... *P. R. Grant* and *K. Thalia Grant* 397
Natural History of the Guam Rail ..... *J. Mark Jenkins* 404
Vocalizations of the Rufous-backed Thrush (*Turdus rufopalliatus*) in Guerrero, Mexico
Gary L. Grabowski 409
Morphological Correlates of Dominance in Captive Male Red-winged Blackbirds
William A. Searcy 417

SHORT COMMUNICATIONS

Notes on the Vocalizations of the Mexican Chickadee ..... *Keith L. Dixon* and *Dennis J. Martin* 421
Incidence of Distress Calls in Mist-netted Birds ..... *Michael Perrone, Jr.* and *Dennis R. Paulson* 423
The Relationship between Habitat and Song in the White-throated Sparrow
Fred E. Wasserman 424
Behavioral Implications of the Defense of a Shoveler Brood by Common Eiders
Patrick J. Weatherhead 427
Physical Deformities in a Population of Wintering Blackbirds
Marjorie S. Sharp and *Robert L. Neill* 427
The Uropygial Gland of the Sooty Tern ..... *David W. Johnston* 430
Ring-billed Gulls Feeding on Date Fruits ..... *Gilbert S. Grant* 432
Oyster Predation by the Black Oystercatcher in British Columbia
Robert W. Butler and *John W. Kirbyson* 433
Nest Site Selection in Eastern Bluebirds ..... *Benedict C. Pinkowski* 435
Choice of Host Nest by the Brown-headed Cowbird in Colorado and Wyoming
Ladislav R. Hanka 436
Starlings Become Established at Fairbanks, Alaska ..... *Brina Kessel* 437
First Nesting Record of Gray-hooded Gull from Ecuador
Robert S. Ridgely and *David S. Wilcove* 438

RECENT PUBLICATIONS 347, 375, 389, 408, 416
NEWS AND NOTES 439
THE BULLETIN BOARD 442
STATEMENT OF OWNERSHIP 444
INDEX TO VOLUME 81 445